

COEVOLUTION

Quarterly

Box 428, Sausalito, CA 94966

If the headache would only precede the intoxication, alcoholism would be a virtue.

—Samuel Butler (via Gregory Bateson)

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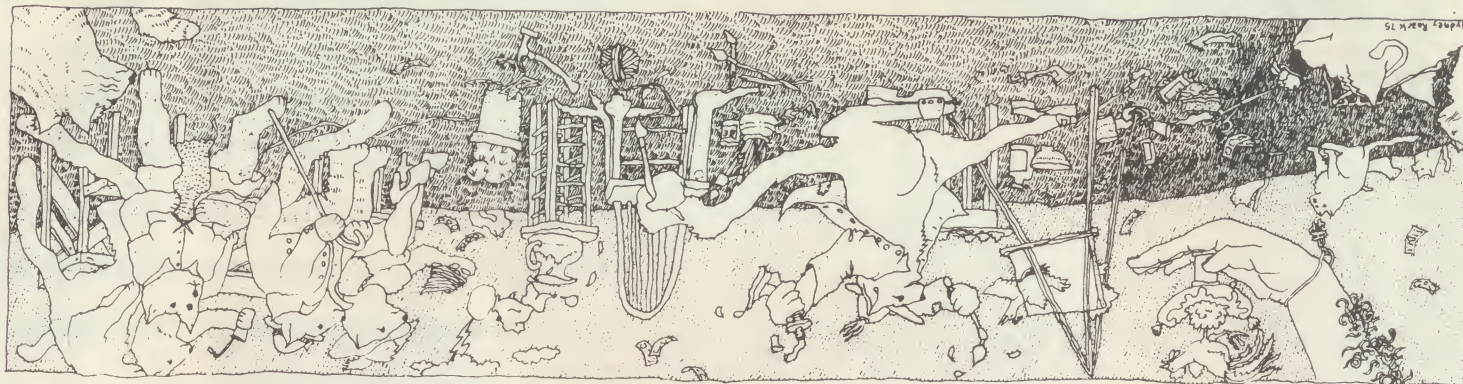
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the artist cat goes crazy while the hand of fortune gives him the "craziness is money" award



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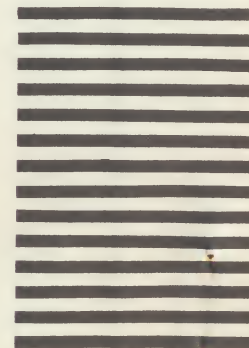
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* March 81

*International leaders, for over a decade,
in the design and manufacture of
quality magnetic recording devices*

Catalog No. S-102

synchronous magnetic film

SOUND RECORDING SYSTEMS

RECORDERS • REPRODUCERS • INTERLOCKS • ACCESSORIES

*for motion picture producers
in governmental agencies, entertainment,
industry and education*



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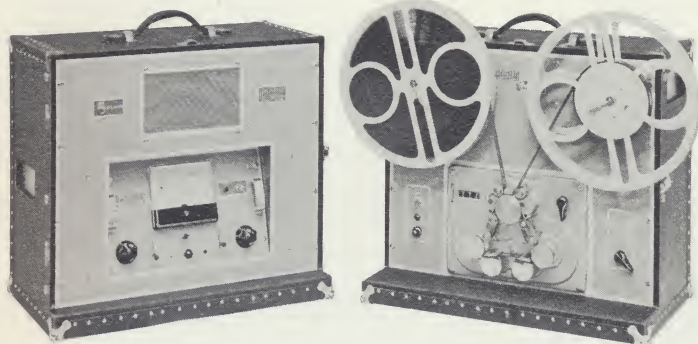
to present this new, comprehensive 24-page catalog of our complete line of motion picture sound recording/re-recording systems and accessories.

The quality, dependability and economy of these equipments . . . together with INTEGRITY . . . have earned Magnasync the status of International leaders in this field.

We welcome your inquiry concerning your particular recording/re-recording problems. Our engineers will give prompt assistance . . . at no obligation.

602, 702, 135 Series RECORDERS

16mm, 17.5mm, 35mm, synchronous magnetic film



TYPE 5

The Type 5 portable recorder is one of the most popular and dependable recorders in use by producers throughout the world. This time-proven recorder is available with all standard film speeds and voltages for complete international compatibility. Uncompromising performance and striking professional appearance have been combined to make the Magnasync Type 5 the most universally accepted sound system produced.

FEATURES

- Safety interlock prevents record in reverse direction.
- Plug-in record, playback and oscillator sections.
- Bias indication readout.
- Record indicator light.
- Built-in monitor amplifier and loudspeaker.
- Precision-ground sprocket teeth.
- Two torque motors, for take-up, rewind, fast forward.
- Separate playback gain control.
- Input level selector.
- "A-B" monitor selector.
- Dialogue equalizer switch.
- Salient pole synchronous drive motor.
- Accurate footage counter.
- Dual "Synkinetic" flywheels.
- 4½" VU meter.
- SMPTE-ASA standards.
- Plug-in head assemblies available.
- Two and three-channel models available; specifications and prices on request.

SPECIFICATIONS

Film Type, Tracking, Model Numbers:

- 16mm, Edge Track; Model 602-E-5
- 16mm, Center Track; Model 602-C-5
- 16mm, Release Print; Model 602-R-5
- 17.5mm, Standard ASA Track; Model 702-A-5
- 35mm, Standard ASA Track; Model 135-A-5

Film Capacity: Standard 1200-ft. reels. (2 Magnasync reels Models M-77B or M-35B with hubs, furnished with each recorder).

Take-up and Rewind: Two torque motors for high speed rewind from reel to reel or synchronous reverse through sprocket drive.

Footage Counter: Directly coupled to film drive sprocket for accuracy; adds forward, subtracts reverse; reset type.

Drive Motor: Salient pole synchronous. Standard unit furnished with 115-volt, 60-cycle, single phase, 24 fps drive motor. Drive motors with other voltages, cycles and phases available including 25 fps film speed at 50 cycles, at no additional cost. See "Special Motors" section for information.

Frequency Response:

- 50 to 10,000 cps: ±2 db at 36 or 45 fpm.
- 50 to 13,000 cps: ±2 db at 90 fpm.

Distortion: Less than 2% total harmonic.

Signal-to-noise Ratio: 58 db.

Flutter and Wow: 0.15% maximum rms, 36 to 45 fpm.
0.1% maximum rms, 90 fpm.

Inputs: High gain (100 db) microphones, 50, 250, or 600 ohms; strapped for 50 ohms standard. Bridge input.

Input Level Selection: High level, line and low level switching on amplifier front panel.

Outputs: Zero db level, 600 ohms balanced. Speaker output, 4 to 8 ohms, 2 watts with built-in speaker.

Monitor: 4½-inch V.U. Meter monitors input signal. Head-phone output will feed any impedance above 600 ohms. Direct or film monitor switch.

Dialogue Equalization: Switch for normal or high-pass filter with bass roll-off from 300 cps, -10 db at 100 cps.

Power Consumption: 120 watts at 115 volts, 60-cycle single phase.

Size: Mechanical Unit, 17¾" high, 20" wide, 12" deep.
Amplifier Unit, 17¾" high, 20" wide, 12" deep.

Weight: 97 lbs. (44 kgs) net (both units).

ACCESSORIES

EM-2, Erase Oscillator.

M-450, Interlock Motor Sub-base.

M-45 Type, Flexible Cable for projector interlock.

M-96, Remote Control.

D-2, D-3, Dust Covers.

G-924, Multi-channel Mixer.

(See "ACCESSORIES" Section)

See other side for Type 4 and Type 2 Recorders →

DEALER:

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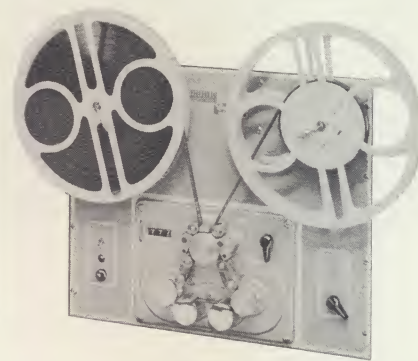
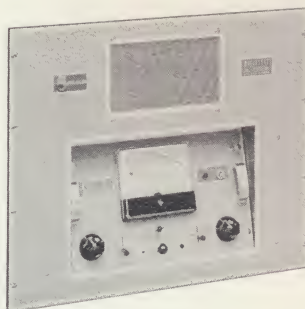
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602, 702, 135 Series RECORDERS

16mm, 17.5mm, 35mm, synchronous magnetic film

TYPE 4

For standard 19" rack cabinet mounting. Entire mechanism and amplifier specifications identical to the Type 5. Two and three-channel models available; specifications and prices on request.



SPECIFICATIONS

Film Type, Tracking, Model Numbers:

- 16mm, Edge Track; Model 602-E-4
- 16mm, Center Track; Model 602-C-4
- 16mm, Release Print; Model 602-R-4
- 17.5mm, Standard ASA Track; Model 702-A-4
- 35mm, Standard ASA Track; Model 135-A-4

Size: Mechanical Unit, 15 3/4" high, 19" wide, 7 1/2" deep.

Amplifier Unit, 15 3/4" high, 19" wide, 9 1/4" deep.

Weight: 87 lbs. (40 kgs) net (both units).

ACCESSORIES

EM-2, Erase oscillator.

M-470, Interlock Motor Attachment.

M-473, Interlock Motor Attachment.

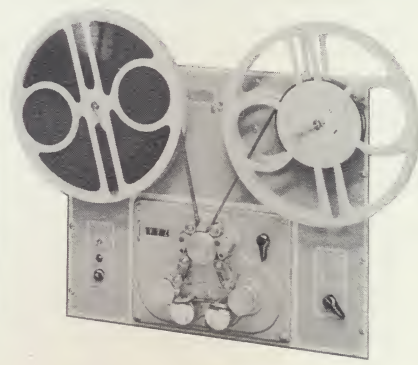
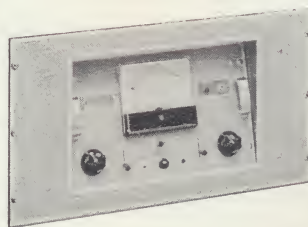
M-96, Remote Control.

(See "ACCESSORIES" Section)

TYPE 2

For standard 19" rack cabinet mounting. Entire mechanism and amplifier specifications identical to the Type 5 except for amplifier which is on a 10 1/2" panel, without monitor speaker.

Two and three-channel models available: specifications and prices on request.



SPECIFICATIONS

Film Type, Tracking, Model Numbers:

- 16mm, Edge Track; Model 602-E-2
- 16mm, Center Track; Model 602-C-2
- 16mm, Release Print; Model 602-R-2
- 17.5mm, Standard ASA Track; Model 702-A-2
- 35mm, Standard ASA Track; Model 135-A-2

Size: Mechanical Unit, 15 3/4" high, 19" wide, 7 1/2" deep.

Amplifier Unit, 10 1/2" high, 19" wide, 9 1/4" deep.

Weight: 80 lbs. (37 kgs) net (both units).

ACCESSORIES

EM-2, Erase Oscillator.

M-470, Interlock Motor Attachment.

M-473, Interlock Motor Attachment.

M-96, Remote Control.

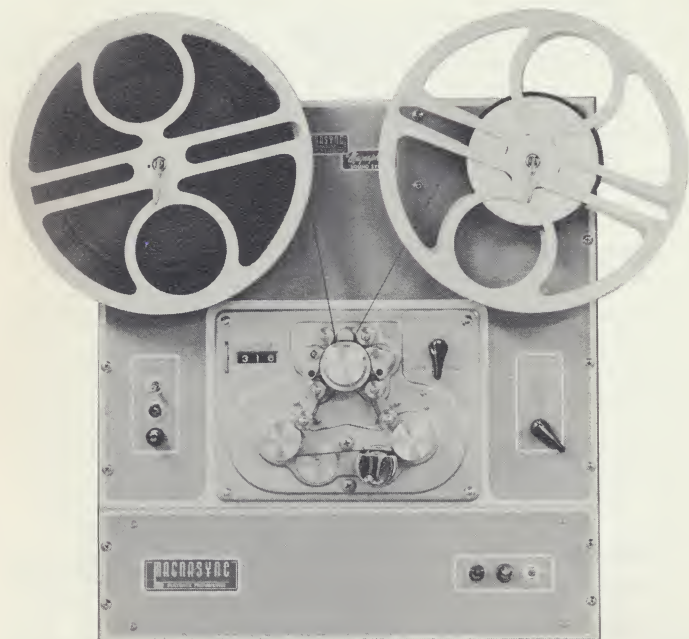
(See "ACCESSORIES" Section)

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602, 702, 135 Series REPRODUCERS

16mm, 17.5mm, 35mm, synchronous magnetic film

TYPE 11

Quality Reproduction of magnetic tracks in re-recording sound is a must. These reproducers, utilizing the mechanism of the Type 5 recorder, **have proven themselves worldwide over the past decade** in the true reproduction of sound, dependability, and ease of operation. Available as single units for modular unit assembly, or packaged complete with interlock accessories in racks in combination of two or three complete reproducers.

FEATURES

- Standard 1200-ft. reels.
- Two torque motors for high speed rewind from reel to reel or synchronous reverse through sprocket drive.
- Individual motor switching.
- Salient pole synchronous drive motors.
- Provisions for second playback head for transfer of **either** edge or center track.
- Basic amplifier power distribution panel with provisions for up to three preamplifiers.
- SMPTE-ASA Standards.
- Plug-in head assemblies available.
- Two and three-channel models available; specifications and prices on request.

SPECIFICATIONS

Film Type, Tracking, Model Numbers:

- 16mm, Edge Track; Model 602-E-11
- 16mm, Center Track; Model 602-C-11
- 16mm, Release Print; Model 602-R-11
- 17.5mm, Standard ASA Track; Model 702-A-11
- 35mm, Standard ASA Track; Model 135-A-11

Film Capacity: Standard 1200-ft. reels. (2 Magnasync reels Models M-77B or M-35B with hubs, furnished with each reproducer).

Take-up and Rewind: Two torque motors for high speed rewind from reel to reel or synchronous reverse through sprocket drive.

Footage Counter: Directly coupled to film drive sprocket for accuracy; adds forward, subtracts reverse; reset type.

Drive Motor: Salient pole synchronous. Standard unit furnished with 115-volt, 60-cycle, single phase, 24 fps drive motor. Drive motors with other voltages, cycles and phases available including 25 fps film speed at 50 cycles, at no additional cost. See "Special Motors" section for information.

Frequency Response:

- 50 to 10,000 cps: ± 2 db at 36 or 45 fpm.
- 50 to 13,000 cps: ± 2 db at 90 fpm.

Distortion: Less than 2% total harmonic.

Signal-to-noise Ratio: 60 db.

Flutter and Wow: 0.15% maximum rms, 36 to 45 fpm.
0.1% maximum rms, 90 fpm.

Output: Zero level; balanced transformer output, standardly strapped for 600 ohms at factory.

Weight: 50 lbs. (22.7 kgs) net.

ACCESSORIES

See "ACCESSORIES" Section for appropriate interlock and audio.

DEALER:

See other side for double and triple reproducer systems, electrically or mechanically interlocked

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602, 702, 135 Series REPRODUCERS

16mm, 17.5mm, 35mm, synchronous magnetic film

ELECTRICAL INTERLOCK

TYPE 22

Two Type 11 reproducer transports in R-77 rack cabinet complete with power supply, two plug-in preamplifiers, two M-470 Selsyn interlock assemblies and two M-437 interlock motor relays ready to use with M-790, M-791 or M-792 control panels and associated distributors.

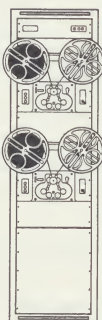
Film Type, Tracking, Model Numbers:

16mm, Edge Track; Model 602-E-22

16mm, Center Track; Model 602-C-22

17.5mm, Standard ASA Track;
Model 702-A-22

35mm, Standard ASA Track;
Model 135-A-22



TYPE 33

Three Type 11 reproducer transports in R-77 rack cabinet complete with power supply, three plug-in preamplifiers, three M-470 Selsyn interlock assemblies and three M-437 interlock motor relays ready to use with M-790, M-791 or M-792 control panels and associated distributors.

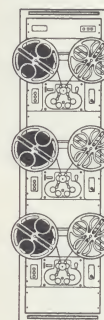
Film Type, Tracking, Model Numbers:

16mm, Edge Track; Model 602-E-33

16mm, Center Track; Model 602-C-33

17.5mm, Standard ASA Track;
Model 702-A-33

35mm, Standard ASA Track;
Model 135-A-33



NOTE: Reproducers equipped ready-to-go in rack cabinet and system-tested at factory.

MECHANICAL INTERLOCK

TYPE 12

Two Type 11 reproducer transports in R-77 rack cabinet complete with power supply and two plug-in preamplifiers, mechanically interlocked*.

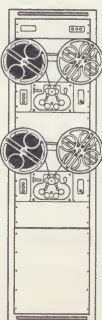
Film Type, Tracking, Model Numbers:

16mm, Edge Track; Model 602-E-12

16mm, Center Track; Model 602-C-12

17.5mm, Standard ASA Track;
Model 702-A-12

35mm, Standard ASA Track;
Model 135-A-12



TYPE 13

Three Type 11 reproducer transports in R-77 rack cabinet complete with power supply and three plug-in preamplifiers, mechanically interlocked*.

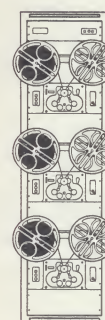
Film Type, Tracking, Model Numbers:

16mm, Edge Track; Model 602-E-13

16mm, Center Track; Model 602-C-13

17.5mm, Standard ASA Track;
Model 702-A-13

35mm, Standard ASA Track;
Model 135-A-13



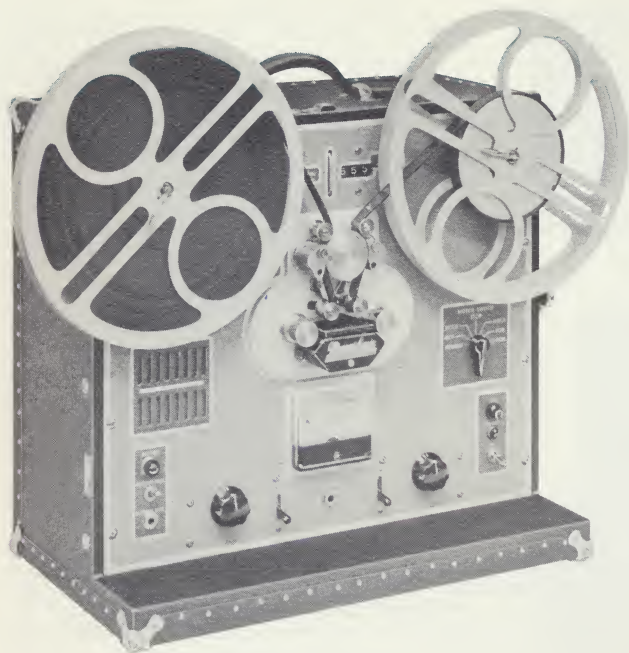
*Mechanical interlock is jack-shaft type, 1000 rpm, 50 cycles; 1200 rpm, 60 cycles. Suitable for 1:1 coupling to Westrex or RCA interlock systems.

NOTES: Gilmer belt and pulley sets, interlock motors and mounting hardware available separately per your specifications. Reproducers equipped ready-to-go in rack cabinet and system-tested at factory.

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X-400 Series RECORDERS

16mm only, synchronous magnetic film

X-400 TYPE 15

The "ALL-IN-ONE" Type 15, in a single portable case, is a complete, top-quality sound system. Playback monitor amplifier, loudspeaker and recorder are all built into this one compact package. Just open the case and you're in business! Designed for "on-the-go" producers who want to save set-up time.

FEATURES

- Accurate, chain coupled, easy-to-read footage counter.
- Two torque motors, for take-up, rewind, fast forward.
- Simplified single-switch for all motor control functions.
- Simultaneous film monitor through separate play head.
- "RECORD" indicator lamp to protect 'takes'.
- Accommodates standard 1200-ft. film reels.
- Bias indication readout.
- SMPTE standard performance.

SPECIFICATIONS

Film Type, Tracking, Model Numbers:

16mm, Edge Track; Model X-400-E-15
16mm, Center Track; Model X-400-C-15
16mm, Release Print, Model X-400-R-15

Film Capacity: Standard 1200-ft. reels. (2 Magnasync reels Models M-77B with hubs, furnished with each recorder)

Take-up/Rewind: Two torque motors for high speed rewind from reel to reel or synchronous reverse through sprocket drive.

Footage Counter: Directly coupled to film drive sprocket for accuracy; adds forward, subtracts reverse; reset type.

Drive Motor: Salient pole synchronous. Standard unit furnished with 115-volt, 60-cycle, single phase, 24 fps drive motor. Drive motors with other voltages, cycles and phases available including 25 fps film speed at 50 cycles, at no additional cost. See "Special Motors" Section for information.

Frequency Response:

50 to 10,000 cps: ± 2 db at 36 fpm.

Distortion: Less than 2% total harmonic.

Signal-to-noise Ratio: 56 db

Flutter and Wow: 0.18% maximum rms overall.

Inputs: High gain microphone channel. (Strapped for 50 ohms standard. Can easily be changed to 250 ohms or 600 ohms.) Cannon X-L connector. Hi Impedance input.

Output: Cathode follower (.6 volt into 600 ohms)

Dialogue Equalization: Switch for bass roll-off from 300 cps to -10 db at 100 cps.

Monitor: $3\frac{1}{2}$ " VU meter monitors input signal. Built in monitor speaker and power amplifier with provision for auxiliary speaker output, 4 to 8 ohms with 2 watts of power. Monitor output will feed any impedance above 500 ohms. Monitor direct through amplifier or switch to "Film Monitor" for simultaneous playback from film.

Power Consumption: 120 watts.

Case Dimensions: 18" high, 20" wide, 11" deep.

Weight: 60 lbs. (28 kgs) net.

ACCESSORIES

D-2, Dust Cover.

M-480-A, Selsyn Interlock.

M-44 Type, Flexible Cable for projector interlock.

M-98, Remote Control.

G-924, Multi-channel Mixer.

(See "ACCESSORIES" Section).

DEALER:

See other side for X-400 Type 1 and Type 2 Recorders

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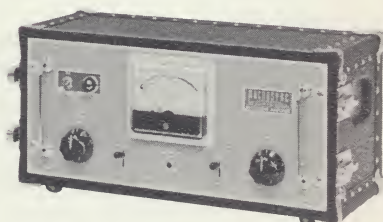
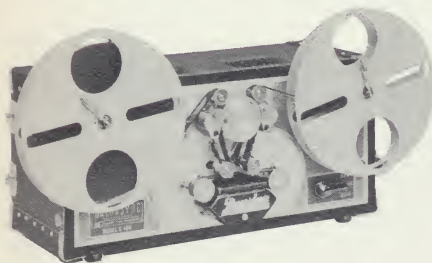


International leaders, for over a decade, in the design and manufacture of quality magnetic recording devices

X-400 Series RECORDERS

16mm only, synchronous magnetic film

X-400 TYPE 1 PORTABLE



The X-400 is a complete synchronous 16mm magnetic film recording and reproducing channel, professional in every detail. This is the answer for the independent producer whose budget had previously prevented him from taking advantage of sprocketed double-system production. This unit is also designed around the basic "Synkinetic" motion principle that through the years has given meaning to the Magnasync pledge — Quality, Economy, Integrity!

The X-400 may be operated in either console or stacked positions. Positive projector interlock can be made with the simple flexible cable gear box attachment.

FEATURES

- Professional, heavy-duty construction.
- Bias indication readout.
- Simple projector interlock.
- Instantaneous "Film-Direct" monitoring.
- Simplicity of operation.
- Extreme lightweight portability.
- Attractively housed in break apart case.
- Low power consumption.
- SMPTE standard performance.

SPECIFICATIONS

Film Type, Tracking, Model Numbers:

- 16mm, Edge Track; Model X-400-E-1
- 16mm, Center Track; Model X-400-C-1
- 16mm, Release Print, Model X-400-R-1

Film Capacity: Standard 400-ft. reels; accessory extension arms may be used to accommodate 1200-ft. reels. (2 Magnasync reels Models M-76A or M-77B with hubs, furnished with each recorder.)

Rewind: 4:1 ratio reel to reel or synchronous reverse through sprocket drive.

Drive Motor: Salient pole synchronous. Standard unit furnished with 115-volt, 60-cycle, single phase, 24 fps

drive motor. Drive motors with other voltages, cycles and phases available including 25 fps film speed at 50 cycles, at no additional cost. See "Special Motors" section for information.

Frequency Response: 50 to 10,000 cps, ± 2 db.

Distortion: Less than 2% total harmonic.

Signal-to-noise Ratio: 56 db.

Flutter and Wow: 0.18% maximum rms overall.

Inputs: High gain microphone. (Strapped for 50 ohms standard. Can easily be changed to 250 ohms or 500 ohms). Cannon X-L connector. Hi Impedance input.

Output: Cathode follower (.6 volt into 600 ohms).

Monitor: 3½" VU meter monitors input signal. Monitor output will feed any impedance above 600 ohms. Monitor direct through amplifier or switch to "Film Monitor" for simultaneous playback from film.

Dialogue Equalization: Switch for bass roll-off from 300 cps to -10 db at 100 cps.

Power Consumption: 60 watts, including amplifier and drive motor.

Case Dimensions: 15½" high, 19" wide, 7½" deep, closed.

Weight: 35 lbs. (16 kgs) net.

ACCESSORIES

D-6, Dust Cover.

X-42, Footage Counter.

X-43, Extension Arms.

M-480, Selsyn Interlock.

M-44 Type, Flexible Cable for projector interlock.

M-97, Remote Control.

G-924, Multi-channel Mixer.

(See "ACCESSORIES" Section)

X-400 TYPE 2 RACK MOUNT

For standard 19" rack cabinet mounting. Entire mechanism and amplifier specifications identical to the Type 1 except: 1) Equipped with torque motors for supply and take-up reels, 2) 1200-ft. reel capacity, 3) Transport on 12¼" x 19" rack panel, 4) Amplifier on 7" x 19" rack panel.

Film Type, Tracking, Model Numbers:

- 16mm, Edge Track; Model X-400-E-2
- 16mm, Center Track; Model X-400-C-2
- 16mm, Release Print, Model X-400-R-2

ACCESSORIES:

M-481, Selsyn Interlock.

M-97, Remote Control.

G-924, Multi-channel Mixer.

(See "ACCESSORIES" Section)

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These reproducers, utilizing the mechanism of the compact X-400 Type 1 recorder, offer the independent producers **maximum economy and flexibility** without sacrifice of quality and dependability.

Modular "building block" design permits additions of one or more reproducers as required.

Single reproducers include transport mechanism with separate preamplifier section consisting of power supply and equalized preamplifier with provisions for two additional plug-in preamplifiers to accommodate additional reproducers.

Individual drive motors with mechanical positive gear interlock assure absolute "sync" from dead start. Separate synchronous drive motors operate each dubber independently to assure optimum motion stability. Electrical interlock units equipped with individual interlock motors, providing separate unit control for flexibility.

Torque supply and take-up motors guarantee smooth film handling, fast forward and fast rewind.

Available singularly, and in two or three-unit complete systems with mechanical or electrical interlock.

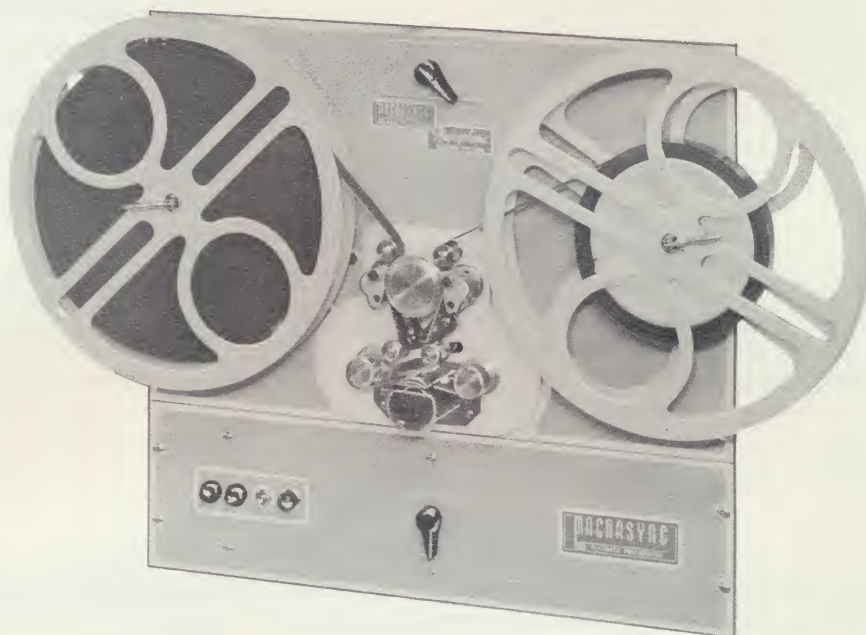
FEATURES

- Professional heavy-duty construction.
- Standard 1200-ft. reels.
- Salient pole synchronous drive motor.
- SMPTE standard performance.

X-400 Series REPRODUCERS

16mm only, synchronous magnetic film

X-400 TYPE 11



SPECIFICATIONS

Film Type, Tracking, Model Numbers:

- 16mm, Edge Track; Model X-400-E-11
- 16mm, Center Track; Model X-400-C-11
- 16mm, Release Print; Model X-400-R-11

Film Capacity: Standard 1200-ft. reels. (2 Magnasync reels Model M-77B with hub, furnished with each reproducer).

Take-up and Rewind: Two torque motors for high speed rewind from reel to reel or synchronous reverse through sprocket drive.

Drive Motor: Salient pole synchronous. Standard unit furnished with 115-volt, 60-cycle, single phase, 24 fps drive motor. Drive motors with other voltages, cycles and phases available including 25 fps film speed at 50

cycles, at no additional cost. See "Special Motors" section for information.

Frequency Response: 50 to 10,000 cps, ± 2 db.

Distortion: Less than 2% total harmonic.

Signal-to-noise Ratio: 58 db.

Flutter and Wow: 0.18% maximum rms overall.

Output: Zero level; balanced transformer output, standardly strapped for 600 ohms at factory.

Size: Transport on 19" x 12 1/4" rack panel. Plug-in preamplifier with power supply and motor switch on 19" x 5 1/4" rack panel.

Weight: 28 lbs. (13 kgs) net.

ACCESSORIES

See "ACCESSORIES" Section for appropriate interlocks and audio.

See other side for double and triple reproducer systems, electrically or mechanically interlocked →

DEALER:

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X-400 Series REPRODUCERS

16mm only, synchronous magnetic film

ELECTRICAL INTERLOCK

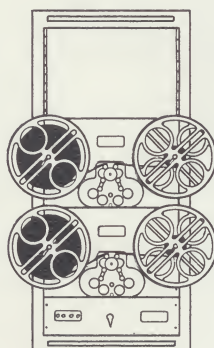
X-400 TYPE 22

Two Type 11 Reproducer transports in R-42 deLuxe rack cabinet complete, one preamplifier section containing power supply, two preamplifiers, two M-481 interlock motors and two M-437 interlock motor relays ready to use with M-790, M-791 or M-792 control panels and associated distributors.

**Film Type, Tracking,
Model Numbers:**

16mm, Edge Track;
Model X-400-E-22

16mm, Center Track;
Model X-400-C-22



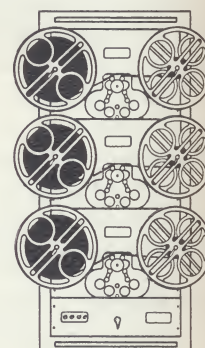
X-400 TYPE 33

Three Type 11 Reproducer transports in R-42 deLuxe rack cabinet complete, one preamplifier section containing power supply, three preamplifiers, three M-481 interlock motors and three M-437 interlock motor relays ready to use with M-790, M-791, or M-792 control panels and associated distributors.

**Film Type, Tracking,
Model Numbers:**

16mm, Edge Track;
Model X-400-E-33

16mm, Center Track;
Model X-400-C-33



NOTE: Reproducers equipped ready-to-go in rack cabinet and system-tested at factory.

MECHANICAL INTERLOCK

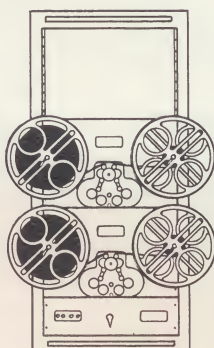
X-400 TYPE 12

Type 11 reproducer transports in R-42 deluxe rack cabinet complete with one preamplifier section containing power supply and two plug-in preamplifiers, mechanically interlocked.

**Film Type, Tracking,
Model Numbers:**

16mm, Edge Track;
Model X-400-E-12

16mm, Center Track;
Model X-400-C-12



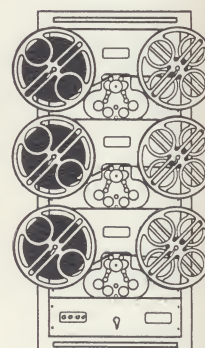
X-400 TYPE 13

Three Type 11 reproducer transports in R-42 deluxe rack cabinet complete with one preamplifier section containing power supply and three plug-in preamplifiers, mechanically interlocked.

**Film Type, Tracking,
Model Numbers:**

16mm, Edge Track;
Model X-400-E-13

16mm, Center Track;
Model X-400-C-13



NOTE: Reproducers equipped ready-to-go in rack cabinet and system-tested at factory.

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Model G-963 Studio Mixing CONSOLETTES

Specifically designed for motion picture re-recording applications

A miniaturized studio mixing console with six input channels and patch bay.

Up to three plug-in microphone pre-amplifiers may be optionally added. Line amplifier has input and output level attenuation controls; "Film-Direct" monitor switch with film gain control, and matching blank panels are provided for custom additions.

Modular construction of cabinet and components, optional plug-in microphone pre-amplifiers, and hinged top door for complete accessibility to all components.

SPECIFICATIONS

Frequency Response: 30 to 15,000 cps., ± 1.5 db.

Signal-to-noise Ratio: 70 db below program level.

Distortion: 0.5% total harmonic.

Output Level: 20 dbm maximum.

Power Consumption: 75 watts.

Size: 34½" wide, 14" high, 24" deep.

ACCESSORIES

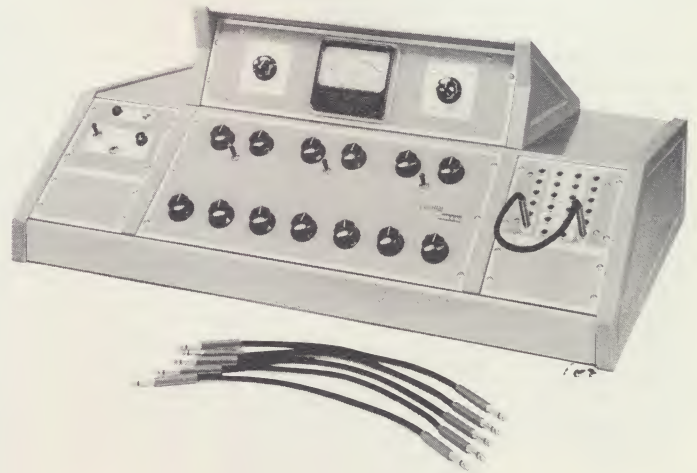
Model S-801 Microphone Preamplifier. Up to three can be added, wired for 50-ohm input or strapped for either 250 or 600 ohms.

Model G-971 Reference Level Oscillator. May be added in place of one of the blank panels. When keyed, oscillator injects a 1000-cycle tone to output line at +4 dbm level.

Model G-970 Talk-back Microphone. When keyed, affords talk-back from "mixer" to the "recordist".

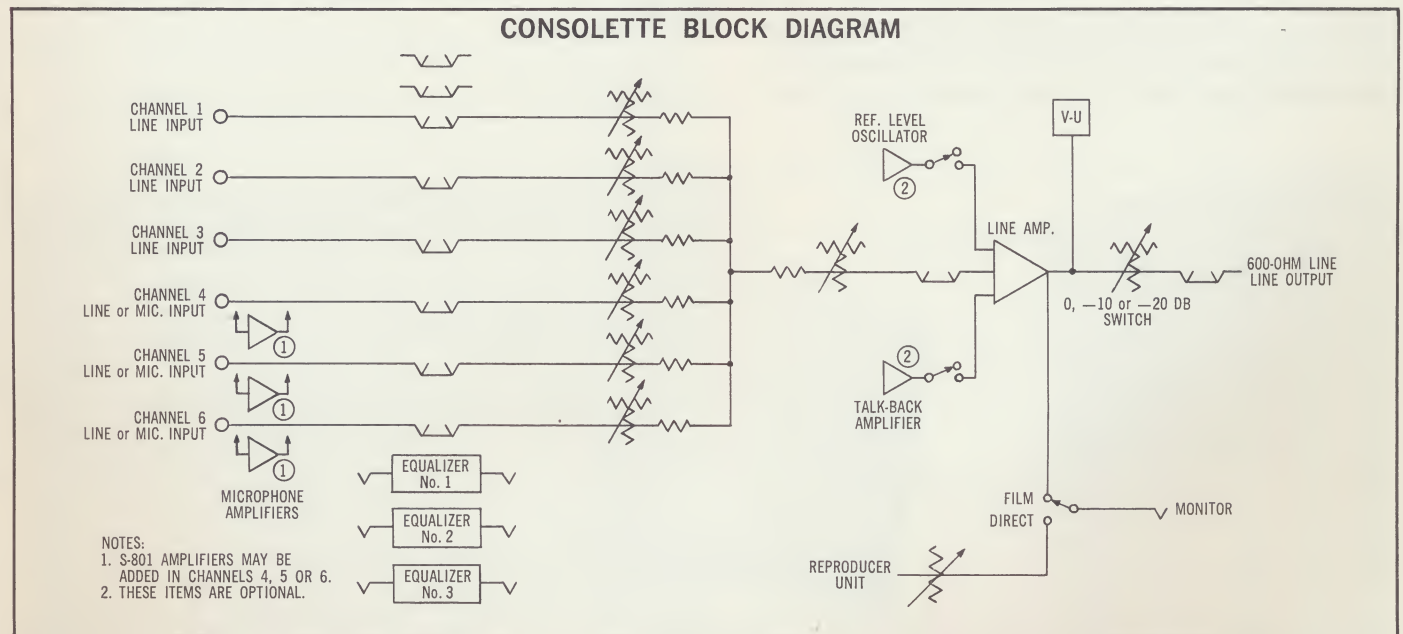
Model G-967-R Right Hand Extension. Provides 19"x8¾" panel space for mounting equipment such as M-790 Distributor control, PA-40 Monitor Amplifier, special filters, equalizers, etc.

Model G-967-L Left Hand Extension, as above.



The consolette includes the following, housed in an attractive enclosure:

- 1 — G-700 Line Amplifier
- 1 — G-803 Equalizer (three channel)
- 1 — G-860 Ladder Attenuator Panel
- 1 — G-900-1 Patch Panel (with 2 extra jacks for auxiliary equipment.)
- 1 — G-900-2 Control Panel
- 1 — G-900-3 Power Supply
- 1 — G-900-4 Input-Output Panel
- 3 — G-900-5 Input Panels (can be replaced with S-801 Microphone Pre-amplifier as an optional accessory, channels 4, 5 and 6).



DEALER:

See other side for Custom Consoles and Recording Systems

MAGNASYNC

CORPORATION

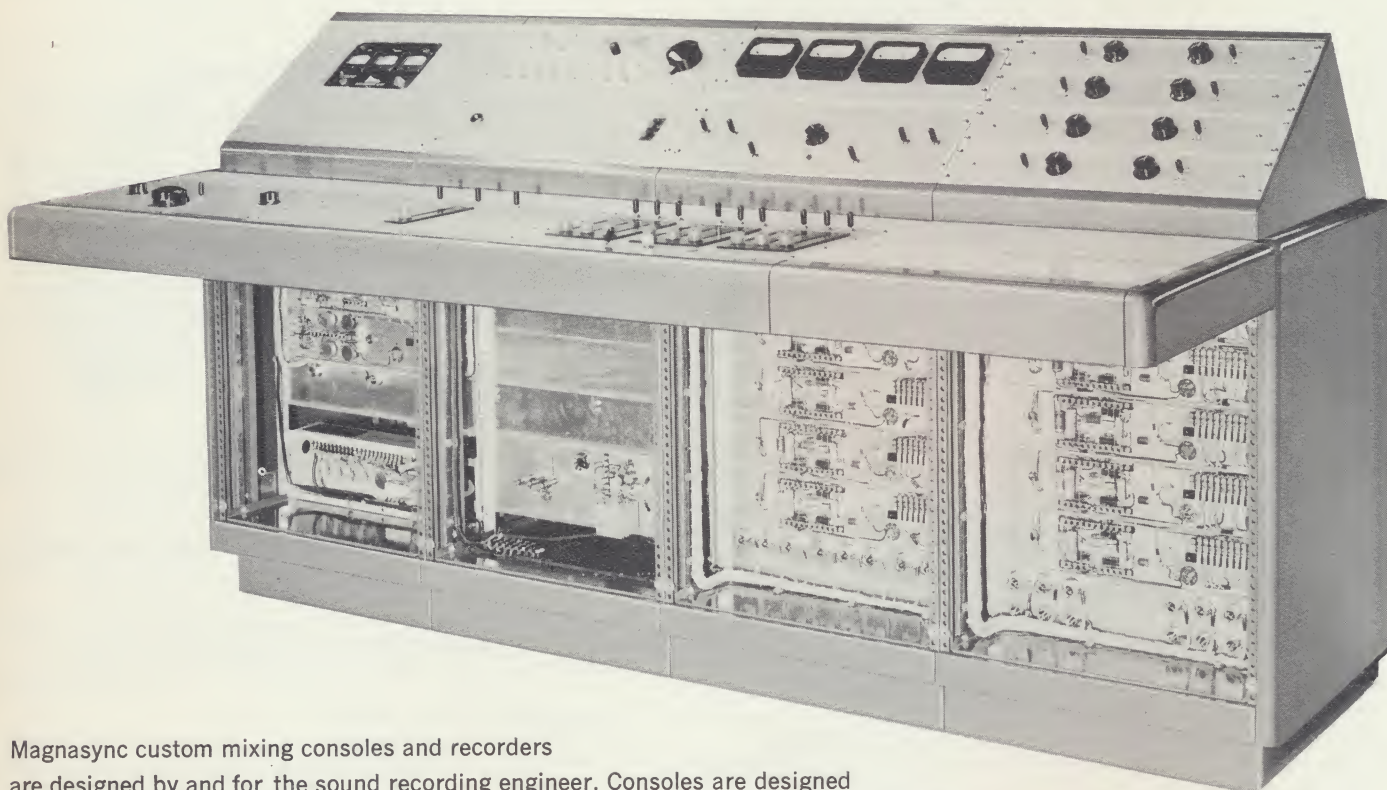
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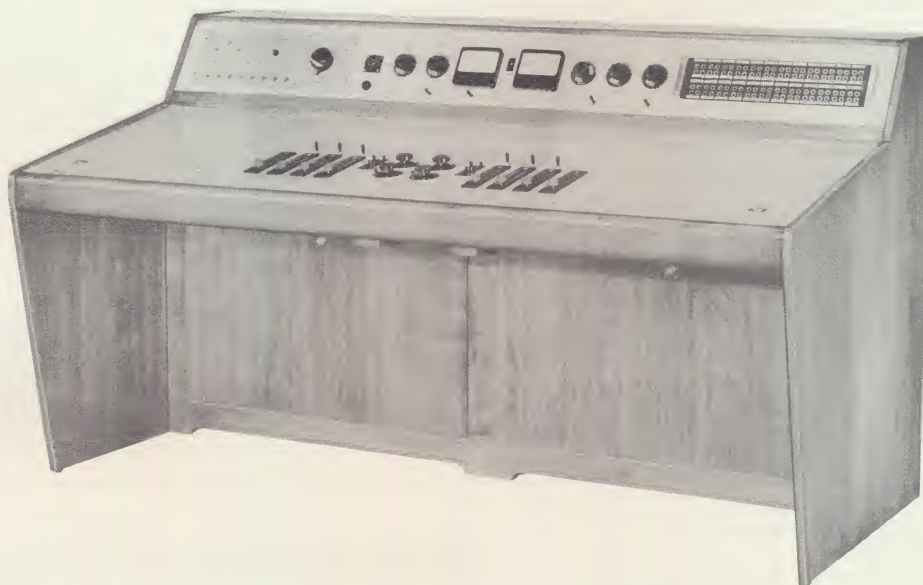


International leaders, for over a decade, in the design and manufacture of quality magnetic recording devices

Custom MIXING CONSOLES and RECORDING SYSTEMS



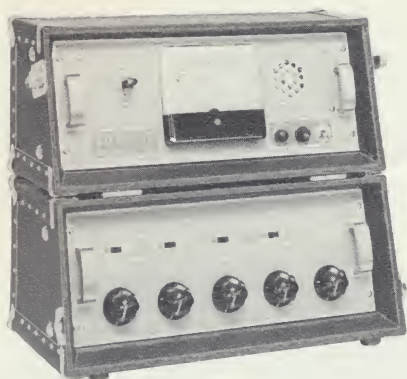
Magnasync custom mixing consoles and recorders are designed by and for the sound recording engineer. Consoles are designed to your exact requirement which gives the mixer complete active control. Stereo and three channel units are available and provisions can be incorporated in the design for future expansion. Magnasync would be pleased to assist you in planning your custom requirements. Write direct giving your specifications and requirements to our Custom Engineering Department for information. There is no obligation.



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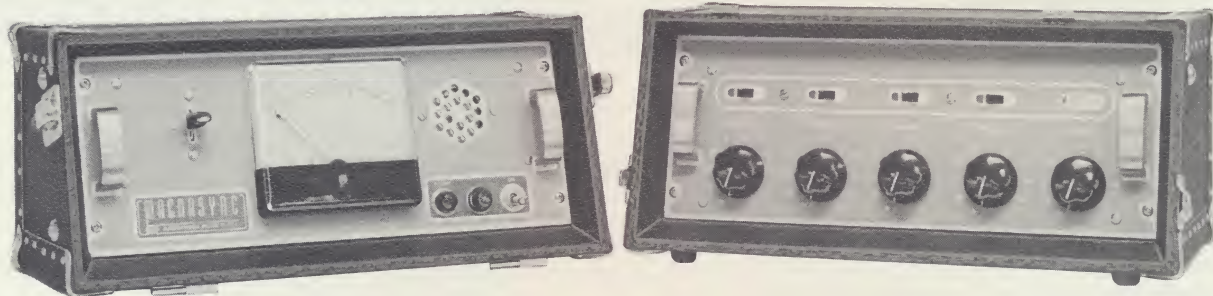
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Model G-924 Multi-channel MICROPHONE MIXER

Model G-924 is specifically designed for motion picture sound recording and remote broadcast transmission. This high level mixer features dialogue equalization on each incoming channel, master gain control, built-in microphone talk-back system, and is engineered by and for sound engineers, with the finest quality components.

For the engineer who prefers a console mixing operation, the G-924 Mixer is a 23-lb. "miniature console". The units fasten together into a single portable case which is attractively styled. The conventional setup offers a professional mixing system when working space is a problem.



FEATURES

- Adaptable for either "console" or "stacked" setup.
- Sections fasten together into single light-weight portable case.
- Printed circuitry.
- Finger-tip color coded equalization control for each microphone channel. Switch to "Music" or "Speech" instantly.
- "Talk-back" mike and switch for communication between mixer and recorder operator. Output of talk-back, feeding into line, can be used to record "sync" mark and identify scenes.
- A.C. power supply is isolated from microphone input transformers to minimize hum pickup.
- Open chassis design for accessibility.
- Attractively packaged in black leatherette cases. Front panels aluminum with grey baked enamel background.

SPECIFICATIONS

Inputs: Three low impedance, microphone (50/250/600-ohm, Cannon XL connectors). One high impedance (phone jack connector). Microphone or Western Electric dual jack connector bridge input available in Channel #3.

Dialog Equalization: Separate "SPEECH-MUSIC" switch for each channel.

Frequency Response: 30 to 15,000 cps ± 1.5 db.

Talk-back: Built-in microphone with key switch.

Microphone Gain: 100 db

Power Requirements: 115 volts A.C., 50-60 cycles, 25 watts. Also available for 230-volt single-phase operation.

Line Output: Balanced 50/250/600-ohms through Cannon XL Connector.

Mixing: High level after amplification.

Noise: Equivalent input grid noise, grid shorted less than 3 mv. Equivalent input noise, grid resistor 100,000 ohm, less than 6 mv.

Distortion: Type measurement; Intermodulation of 60 cycles and 3000 cycles with amplitude ratio of 4:1 for 60 to 3000 cycles. Intermodulation 2.5% at 0 dbm, 3.5% at +6 dbm.

Tube Complement: 3 — 5879, 3 — 12AX7, 1 — 12AU7, 1 — 6X4.

Monitor: Cathode follower into two phone jack outputs with volume control; $4\frac{1}{2}$ " V.U. meter.

Panels: Etched aluminum with light grey baked enamel background, $6\frac{1}{4}$ " x 14". Also available on 7" x 19" panel for rack mounting.

Case: Black leatherette with matching hard fiber edge binding.

Size: Closed case 7" x 13" x 16" high.

Weight: 23 lbs. (11 kgs) net.

ACCESSORIES

See "ACCESSORIES" for microphones, cables, etc., per your requirements.

DEALER:

See other side for Program Equalizers and Degaussers

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Series 800 PROGRAM EQUALIZERS

*Specifically designed for magnetic recording and reproduction.
No maintenance required . . . all components except switches are sealed and encapsulated.
Guaranteed performance.*



Model G-801



Model G-803

SPECIFICATIONS

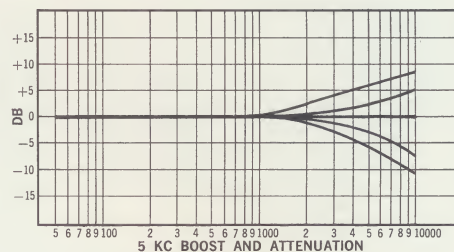
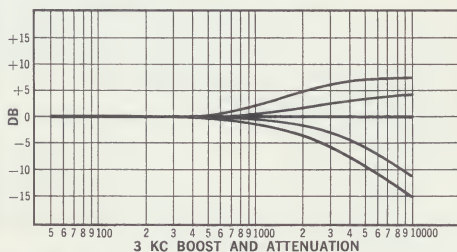
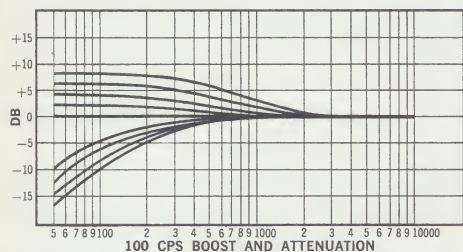
Impedance: 600 ohms.
Switching: Silent "IN-OUT" with 14 db loss pad.
Insertion Loss: 14 db.
Input Level: -70 dbm min. +20 dbm max.
Controls: Low frequency, 8 positions in 2 db steps.
High frequency, 8 positions in 3 db steps.

Mounting: Standard rack panel.

Size: 19" x 3½" x 3½"

Model G-801, Single Equalizer

Model G-803, In-line (triple) Equalizer



Series 900 DEGAUSSERS

For total erasure of all magnetic films, audio and instrumentation tapes.



Model A-937,
Semi-Automatic



Model G-936,
Conventional

The film or tape is placed on the turntable, a button is depressed starting table which revolves for 12 seconds, then automatically stops, leaving the degaussing field on for an additional 5 seconds. This allows operator to remove the film from the field.

Film revolves smoothly, which eliminates any noise patterns that could be left with other types of degaussers. All sizes of audio tape, instrumentation tape or magnetic film may be used. Housed in attractive aluminum housing with operating instructions printed adjacent to START button.

This economically priced model is housed in a square metal enclosure with a phenolic top. Centering post locates hub of film. In operation, film is placed with hub over centering pin and the field energized with the POWER-ON switch. Film is slowly revolved two or three times and then gradually removed from degaussing field before power is switched off.

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ELECTRICAL INTERLOCK PLANNING GUIDE

THE DISTRIBUTOR TYPE INTERLOCK SYSTEM is the most positive . . . assuring absolute interlock between reproducers, projector and recorder. This system is universally accepted by both major studios and small producers as the most efficient, versatile and dependable.

There are three major basic components which comprise this system: the interlock motor for the individual equipments, the interlock distributor, and the interlock distributor control panel. In order to better understand the function of each component there should first be a common definition of terms with respect to the electrical interlock. The interlock motors that are mounted on individual pieces of equipment in the system, such as reproducers (dubbers), recorders and projectors, are also known as "selsyn," "slaves" and "repeaters." The interlock motor distributor is frequently referred to as a "selsyn transmitter" motor distributor or simply as the "master." The distributor control panel serves as a means for (A) selective switching of individual interlock motors in the system, (B) slow starts and stops, (C) reversing the entire interlock system.

A basic feature of the distributor control panel is that it may be remoted from the machine room, such as in a mixing console, etc. The interlock motor distributor controls the individual interlock motors in the system from a "dead stop" to "full run" in either direction at command from the distributor control panel.

With a distributor interlock system the interlock motors act as drive motors. While operating as a distributor interlock system the synchronous motors on the individual pieces of the equipment are not used. Since all Magnasync recording and reproducing mechanisms are furnished with direct drive synchronous drive motors, any single unit in the system may be operated individually by its own synchronous drive motor without running the distributor system.

In conjunction with stock interlock accessories, Magnasync designs and manufactures electrical interlock systems to meet any special requirements. Your inquiry will receive prompt attention.

DEALER:

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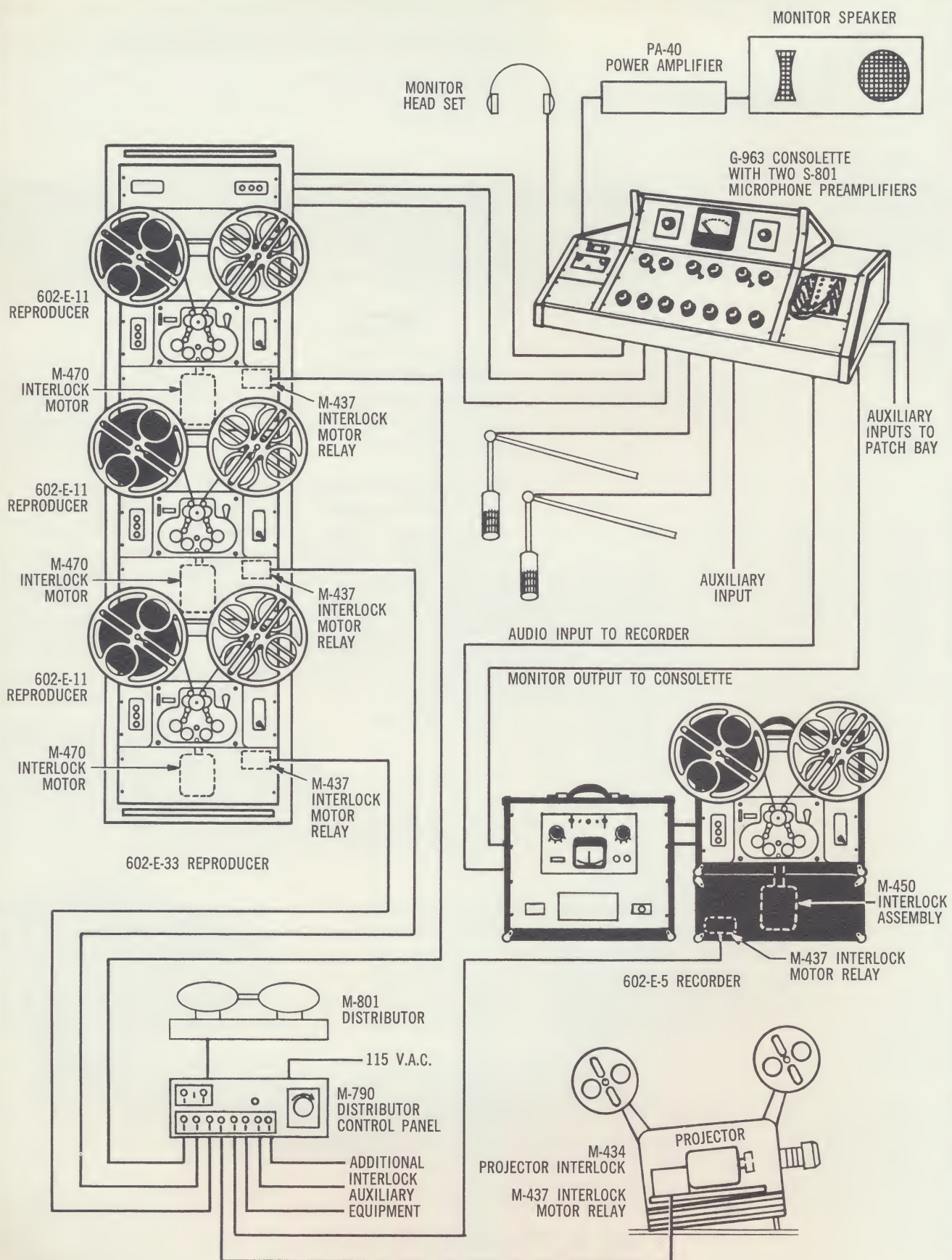
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TYPICAL AUDIO MIXING AND SELSYN INTERLOCK SYSTEM

GUIDE FOR A STUDIO INTERLOCK SYSTEM

REQUIREMENTS:

- A. Three (3) reproducers (dubbers) for composite mixing of music, narration and sound effects.
- B. Recording facilities suitable for studio and location.
- C. Interlocked projection for double system screenings, post-sync narrative recording, post-sync effects recording and musical scoring.
- D. Audio mixing for both recording and dubbing.

EQUIPMENT LIST:

QUANTITY	DESCRIPTION
1	602-E-5 16mm Recorder for studio and location recording.
1	M-450 Interlock Motor and sub case for Type 5 Recorder.
1	M-437 Interlock Motor Relay for M-450 Interlock Motor.
1	M-790 Distributor Control Panel.
1	M-801 Interlock Motor Distributor.
1	602-E-33 Triple Reproducer.
1	M-434 Projector Interlock (select model according to your projector requirements).
1	M-437 Interlock Motor Relay for M-434 Projector Interlock.
1	C-46 Interlock Cable (50'); set for interlock connection.

This listing of equipment includes a triple reproducer, a recorder, an interlock motor distributor and an interlock motor distributor control panel electrically interlocked. The control panel permits remote operation of all equipment; equipment may be located any convenient place in studio.

The next step to complete your studio facilities is the selection of audio equipment. One suggested plan incorporates the following:

QUANTITY	DESCRIPTION
1	G-963 Console with one to three S-801 Microphone Amplifiers, depending upon your requirements.
1	PA-40 Power Amplifier.
1	Monitor Speaker. (E.V. Sentry)

To interconnect the audio system the following cables would be required:

QUANTITY	DESCRIPTION
4	C-43 Cables; three for connecting output of 602-E-33 Triple Reproducer to G-963 Console inputs and one for connecting 602 Type 5 Recorder monitor output to G-963 Console "film-direct" facilities.
1	C-47 Cable for connecting G-963 Console output to 602 Type 5 Recorder input.

Additional audio cables such as microphone cables interconnecting audio cable to power amplifier and auxiliary audio inputs can be supplied according to your requirements.

The system is now complete . . . both interlock and audio . . . for 16mm re-recording.

17.5mm and 35mm Electrical Interlock Systems are available and need only the substitution of appropriate recorder, reproducers and associated interlock accessories.

INTERLOCK ACCESSORIES:

for 115 volts, 50/60 cycles, single-phase, 1500 RPM at 50 cycles, 1800 RPM at 60 cycles.

For direct coupling to Magnasync Recorders, Reproducers or other equipment.

Distributor	Control Panel	Accessories	Relay (one req'd for each accessory)
M-801	M-790 M-791	M-450 M-470 M-480 M-480A M-481 M-431 M-432 M-434B M-434BS M-434G M-434D M-434J M-434P M-439A	M-437
M-802	M-792		

C-46 cable required for interlock.

INTERLOCK ACCESSORIES:

for 220 Volts, 50/60 cycles, three-phase, 1000 RPM at 50 cycles, 1200 RPM at 60 cycles.

A three-phase interlock system can be coupled to any standard shaft speed by Gilmer timing belts and pulleys.

1440 RPM systems available. Send complete specifications for our quotations.

Distributor	Control Panel	Accessories (*)	Relay (one req'd for each accessory)
M-803	M-793	M-473 M-430	M-437X

(*) The M-430 Interlock Motor can be adapted to most interlock requirements. Send complete specifications for our quotations.

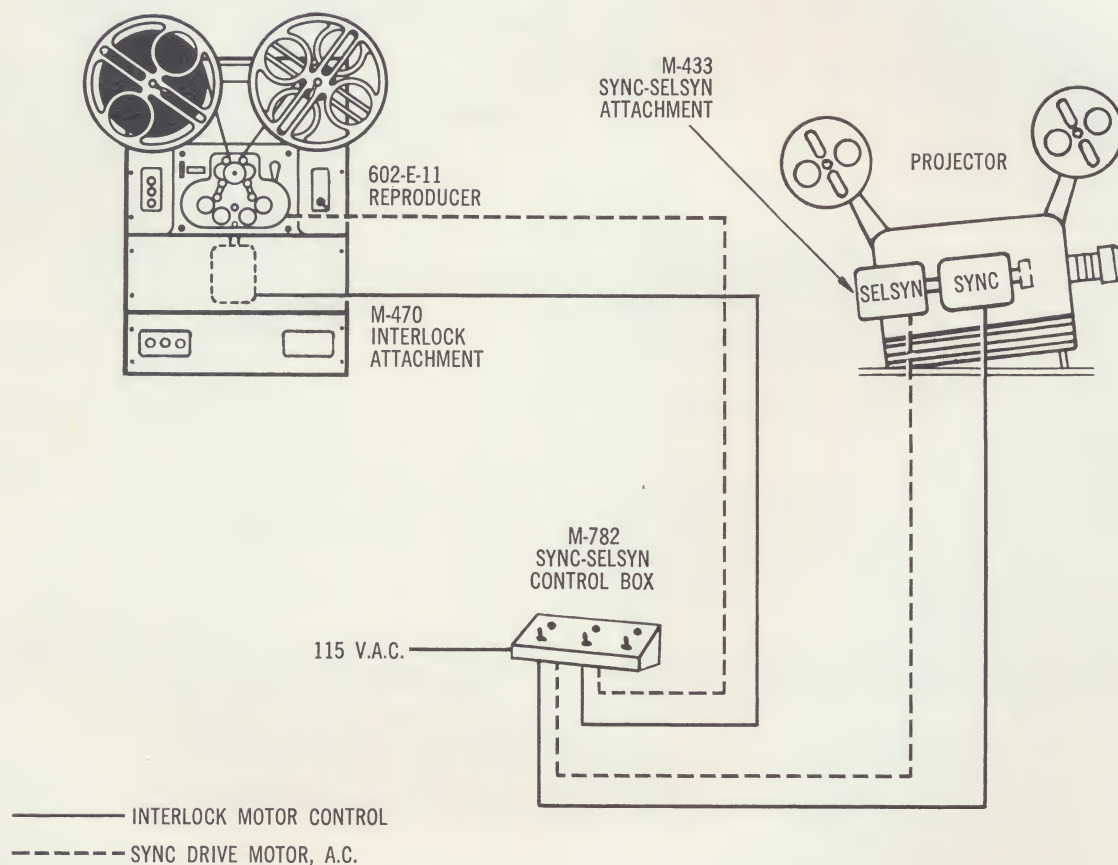
SYNC-SELSYN ELECTRICAL INTERLOCK SYSTEM

The block diagram is representative of a 2-unit Sync-Selsyn Electrical Interlock System. The system operates on the metering principle by the use of interlock motors on individual pieces of equipment electrically locked together with the individual sync drive motors providing the drive power source. In a system such as this the interlock motors must be in proper rotation and be mechanically attached to the individual sync drive motors all running at the same speed.

Interlock motors must be locked together electrically by using a Sync-Selsyn Control Box. Simultaneous starting of all the system's sync drive motors is effected with the master switch.

Sync-Selsyn Control Box Model M-782 is for two units; Model M-784 is for up to four units.

Models M-433B and M-433BS Sync Interlock for Bell and Howell projectors. (See "ACCESSORIES" Section)



TYPICAL SYNC-SELSYN ELECTRICAL INTERLOCK SYSTEM

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Standard and Special DRIVE MOTORS

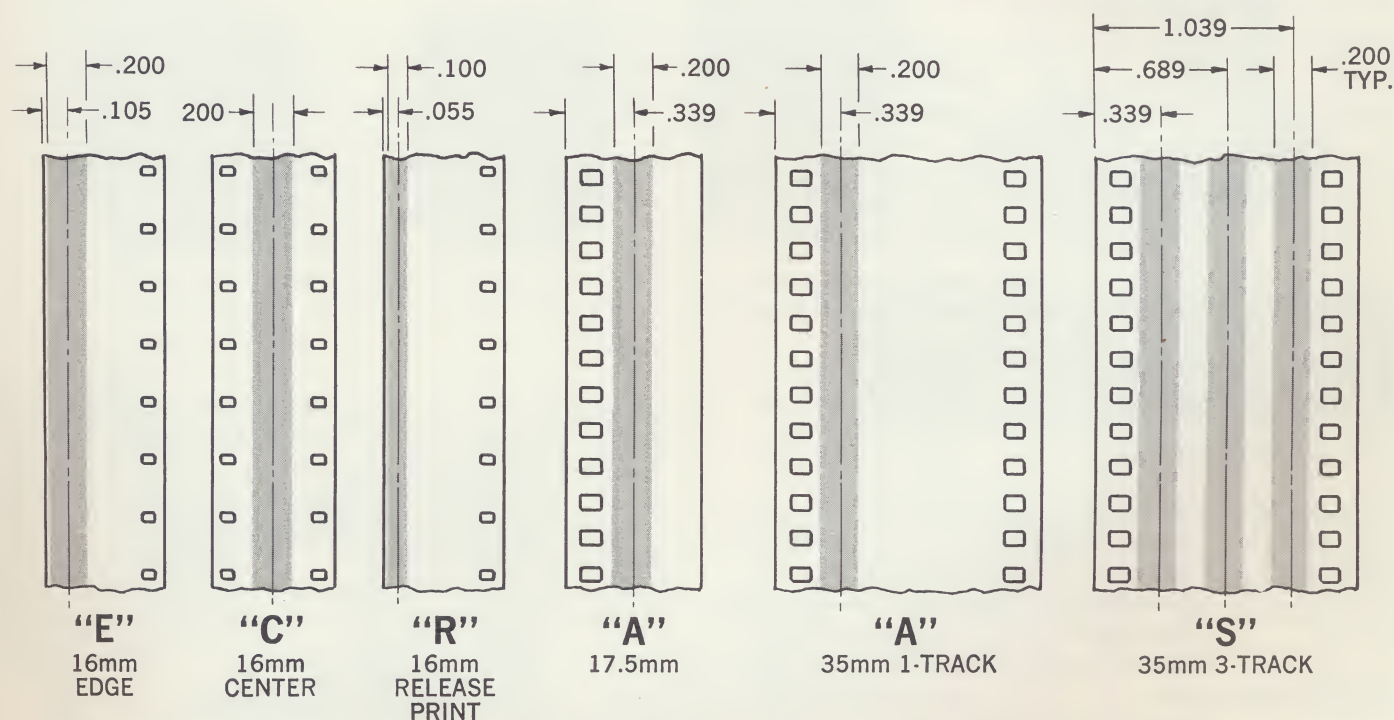
CYCLES	VOLTS	PHASE	FILM FPM	MAGNASYNC ORDER CODE NO.
60	115	1	36	6113
60	115	1	45	6114
60	115	1	90	6119
60	230	1	36	6213
60	230	3	36	6233
60	230	1	90	6219
60	230	3	90	6239
60	115	1	45	6114
60	230	1	45	6214
60	230	3	45	6234
50	115	1	36	5113
50	230	1	36	5213
50	115	1	90	5119
50	230	1	90	5219
50	230	3	36	5233
50	230	3	90	5239
50	115	1	45	5114
50	230	1	45	5214
50	230	3	45	5234

Magnasync recording and reproducing equipments are equipped with 115-volt 60-cycle drive motors. There is no additional cost for equipping a new Recorder or Reproducer with a special drive motor for various other cycles, voltages or phases.

To operate the units at specific feet-per-minute, 24-frames-per-second equipment should be ordered by just noting motor code number on your order. However, 25 frames-per-second equipment should be designated by placing "-25" after the special motor code order number, such as: 5113-25, which would designate a drive motor of 50 cycles, 115 volts, single phase operating at 16mm speed for 25 frames-per-second. There is, however, an additional charge for equipping a 60-cycle unit to operate at 25 frames-per-second. Contact Magnasync.

TRACKING

Quotations will be submitted for special tracking



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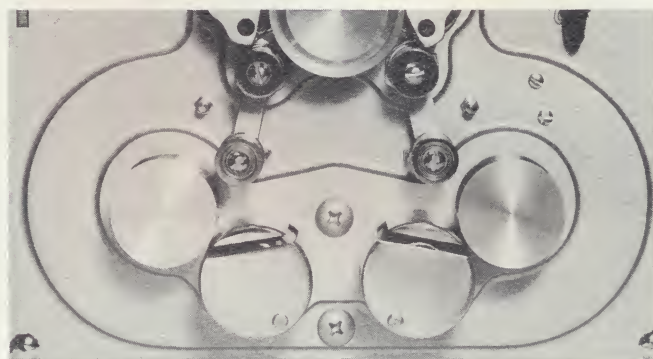
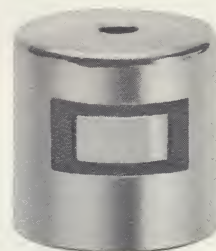
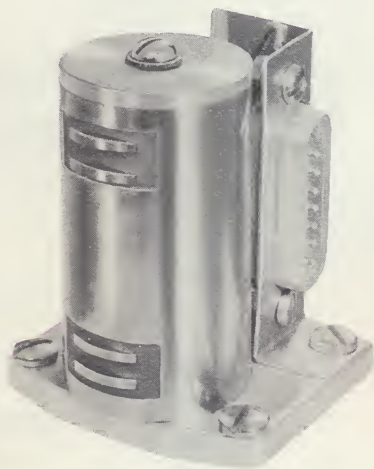
International leaders, for over a decade, in the design and manufacture of quality magnetic recording devices

ADDITIONAL PLAYBACK HEADS

for Magnasync Reproducers

At the time of manufacture an additional playback head may be added to any of the X-400 and 602 Series Reproducers to increase the versatility of the unit. The added magnetic head will be installed in the "record head" position since this head position is not used on a basic Reproducer.

In adding a Center Track head to this position on an Edge Track reproducer, the equipment becomes capable of reproducing both Edge and Center Track through its existing audio system. It must be noted, however, that the equipment will be equalized for basic SMPTE equalization which appears in Center Track reproduction when used in this manner. Head switching is accomplished by switching head cables at the preamplifier.



PLUG-IN HEAD Modifications

at time of manufacture

PLUG-IN HEAD ASSEMBLIES:
(Includes Record and Play Heads)

X-400 Series Recorders:

Model X-45-H-E, Edge Track
Model X-45-H-C, Center Track
Model X-45-H-R, Release Print

602 Series Recorders:

Model X-46-H-E, Edge Track
Model X-46-H-C, Center Track
Model X-46-H-R, Release Print

702 Series Recorders:

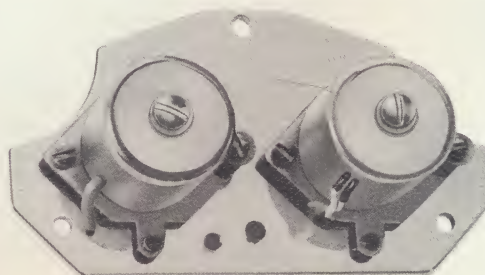
Model X-47-H

135 Series Recorders:

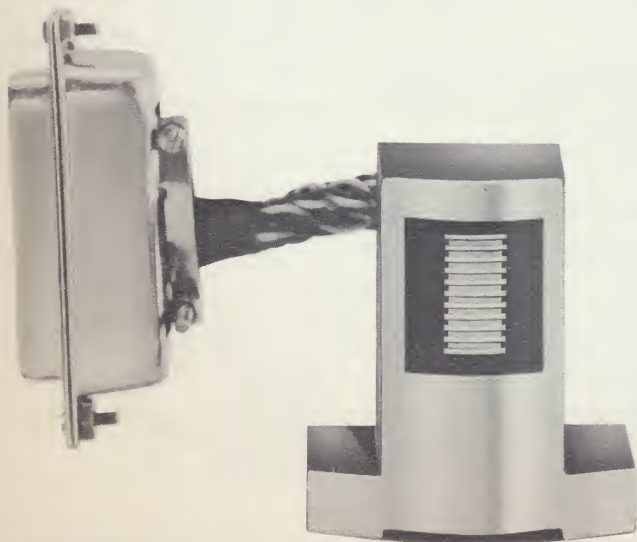
Model X-41-H

At the time of manufacture X-400, 602, 702 and 135 Series Recorders may be modified for plug-in magnetic head sets. This includes modification of the transport assembly to accept Magnasync plug-in head assemblies along with the adapting of the recorder's magnetic heads to a plug-in head set.

When ordering designate Model X-45 for X-400 Series Recorder and X-46 for 602, 702 and 135 Series Recorders.



Magnetic RECORD and PLAYBACK HEADS



Magnasync magnetic heads are designed and fabricated especially for use with professional magnetic motion picture recording/reproducing equipment according to established industry specifications. The magnetic heads listed are direct replacements for factory installed heads on original Magnasync equipment.

Magnasync also engineers and fabricates special magnetic heads for other applications. For information on these special magnetic heads write direct to the factory giving specifications and usage. Quotations will be promptly submitted . . . at no obligation.

16mm Single-channel Heads for X-400 and 602 Series Recorders/Reproducers:

16mm heads have standard 200 mil tracking for Edge or Center tracking. The Edge Track heads have an additional support shoe adjacent to the 200 mil track for film support. Release Print heads are basically the same as Edge Track heads except for the tracking which is 100 mil. The Release Print head is completely relieved in the standard picture area to eliminate film scratching.

- Record:** Model H-2ER, Edge Track
Model H-2CR, Center Track
Model H-1R, Release Print
- Play:** Model H-2EP, Edge Track
Model H-2CP, Center Track
Model H-1P, Release Print
- Erase:** Model H-2EX, Edge Track
Model H-2CX, Center Track
Model H-1X, Release Print

16mm, Two-channel Heads for X-400 and 602 Series Recorders/Reproducers:

200 mil track in Edge Track position with a 100 mil track in Center position.

- Model H-2/1-R, Record
- Model H-2/1-P, Play
- Model H-2/1-X, Erase

17.5mm Single-channel Heads for 702 Series Recorders/Reproducers:

17.5mm heads are designed to track Channel No. 1 on 17.5mm magnetic film as outlined in the ASA Standards.

- Model H-2R7, Record
- Model H-2P7, Play
- Model H-2X7, Erase

35mm Single-channel Heads for 135 Series Recorders/Reproducers:

35mm heads are designed for either Channel No. 1 or Channels No. 1, 2 and 3 in conformance to ASA Standards.

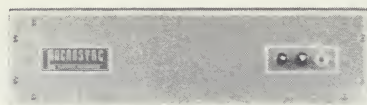
- Model H-A1R, Record
- Model H-A1P, Play
- Model H-A1X, Erase

35mm Three-channel Heads for 135 Series Recorders/Reproducers:

- Model H-A3R, Record
- Model H-A3P, Play
- Model H-A3X, Erase

When ordering replacement heads please send Model and Serial Number of equipment on which heads are to be installed.

Model 602-D PREAMPLIFIER

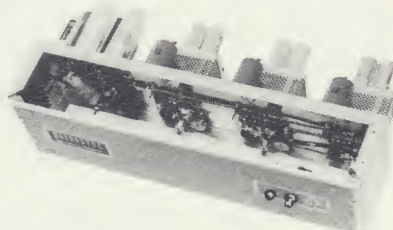


This preamplifier has been especially designed for magnetic film reproduction when used in conjunction with Magnasync's magnetic playback heads. Provisions for "low" and "high" frequency adjustments are built in which allows for adjustment to accommodate SMPTE equalization curves. The preamplifier is mounted on a 5 1/4"x19" standard rack panel with AC "on" and "off" switch and "gain" setting control.

Input: High impedance magnetic head. (Low impedance models available).

Output: 0 dbm level; balanced transformer output, strapped for 600 ohms at factory.

Model 525-D 3-CHANNEL PLAYBACK DECK



This multi-channel unit has been especially designed to accomplish the modular concept for today's versatility in equipments. It is basically a power supply and distribution chassis mounted on a 5 1/4"x19" panel, equipped with three individual sockets which will accommodate up to three Type 602-PB playback preamplifiers. It has individual gain controls for channel level settings.

The Unit, having a corresponding number of 602-PB preamplifiers, is supplied with all Magnasync Reproducers.

Input: High impedance. (Low impedance models available).

Output: 0 dbm level; balanced transformer output, strapped for 600 ohms at factory.

Model 525-D, Basic power supply for Three-channel playback without 602-PB preamplifiers as noted above.

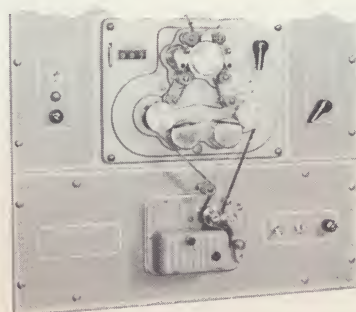
Model 525-D-1, Basic power supply for Three-channel playback including ONE 602-PB preamplifier.

Model 525-D-2, Basic power supply for Three-channel playback including TWO 602-PB preamplifiers.

Model 525-D-3, Basic power supply for Three-channel playback including THREE 602-PB preamplifiers.

Model OP-16 16mm OPTICAL PLAYBACK ATTACHMENT

The unit, with preamplifier, is mounted on a 7"x19" standard rack panel. Fits under magnetic film transport and uses film drive of transport.

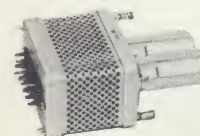


Model 602-PB SINGLE-CHANNEL PLUG-IN PREAMPLIFIER

A plug-in preamplifier of high quality designed for specific use in Magnasync's Recorders/Reproducers.

This preamplifier is also incorporated in the playback amplifier associated with the Model 525-D Three-channel playback unit. "Low" and "high" frequency adjustments have been incorporated for equalization adjustment to accommodate SMPTE equalization curve.

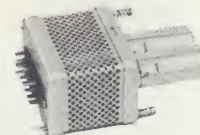
State type of equalization required for nominal factory setting.



Model 602-RE SINGLE-CHANNEL RECORD PLUG-IN AMPLIFIER

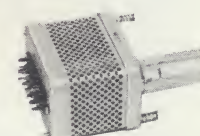
This high quality record amplifier is the same plug-in amplifier used in the 602, 702 and 135 Series Recorders. It is specifically designed for magnetic film recording.

This unit is available separately for use as a spare record amplifier or for adapting Magnasync recorders to an additional equalization curve.



Model 602-OS PLUG-IN BIAS OSCILLATOR

For use with the 602, 702 and 135 Series Recorders.



Model SP-60 SYNC PULSE AMPLIFIERS

These amplifiers are especially designed for use in re-recording original sync pulsed 1/4" tape material to Magnasync recorders. It has a plug-in preamplifier to accept low level sync pulse information and power amplifier to supply a nominal 115 volts AC supply to drive a synchronous drive motor in step with the 1/4" tape recording.

The unit is mounted on a 7"x19" standard rack panel; supply voltage is 115-volt 50/60-cycle only.

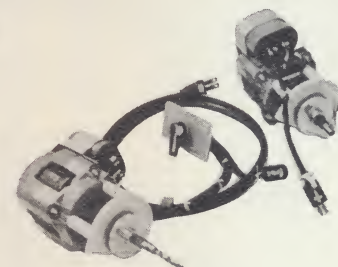
Model SP-60, as described.

Model SP-60C, Housed in an attractive cabinet for desk or console use.



Model X-400-TMK TORQUE MOTOR KIT

Designed to add torque motors to Model X-400, Types 2 and 11, not factory equipped. Includes two motors and switch. For factory or field installation.



MAGNASYNC
CORPORATION
A subsidiary of Monogram Industries, Inc.

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Phone: (213) 877-1591 • Cable "MAGNASYNC"

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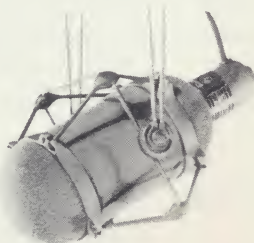
International leaders, for over a decade, in the design and manufacture of quality magnetic recording devices

ACCESSORIES

for Magnasync synchronous magnetic film sound recorders, reproducers and related equipment.

AUDIO

- EV-668** **DYNAMIC CARDIOID MICROPHONE**, especially designed for boom mounting in broadcasting and motion picture recording. Frequency response, 40 to 12,000 cps with low frequency and high frequency response selector. Impedance, 50, 150, 250 ohms. Output level, -51 db.



- D-44** **MICROPHONE**, American dynamic omnidirectional pattern. Lightweight for outdoor and boom work. Especially suited for "fish pole" use. Complete with shock absorbing boom mount and wind screen, in custom fitted carrying case.

- EV-642** **CARDILINE UNIDIRECTIONAL MICROPHONE**, highly directional dynamic with an extreme front to back ratio. Complete with #356 boom shock mount. 50, 150, 250 ohms. Frequency response, 30 to 10,000 cps plus adjustable low frequency roll-off. Output, -48 db.

- EV-327** **WIND SCREEN**, for EV-642 Cardiline unidirectional Microphone.

- EV-666R** **CARDIOID MICROPHONE**, dynamic, with high discrimination against sounds from back. Impedance, 50, 150, 250 ohms. Frequency response, 30 to 16000 cps. Rising frequency response, to 4.5 db from 100 cycles to 2,000 cycles. Includes #300 stand adapter. Output, -56 db.

- EV-366** **BOOM SHOCK MOUNT**, for EV-666R Cardioid Microphone.

- EV-420** **DESK STAND**, for EV-666, EV-655C, EV-654A Microphones.

- EV-524A** **WIND SCREEN**, for EV-666 Microphone.

- EV-655C** **SLIM TRIM TV DYNAMIC MICROPHONE**, nondirectional. Frequency response, 40 to 20,000 cps. Impedance 50, 150, 250 ohms. Output, -55 db. Includes #300 stand adapter.

- EV-654A** **SLIM TRIM BROADCAST DYNAMIC MICROPHONE**, frequency response, 50 to 15,000 cps. Impedance 50, 150, 250 ohms. Output, -57 db. Includes #300 stand adapter. Also suitable as a lavalier mike.

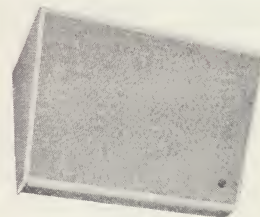
- EV-649B** **MINIATURE LAVALIER MICROPHONE**, weighs only two ounces without cable. Frequency response, 70-10,000 cps. Aluminum case finished in TV grey. Low impedance, nondirectional. Complete with neck cord assembly and belt clip.

AUDIO (Cont'd)

- B-30** **STUDIO BOOM**, has telescope extension to 18-foot maximum, 5-foot minimum. Microphone may be rotated 360 degrees by remote knob at opposite end of boom. Complete description furnished on request.

- B-37** **HEAD SET**, professional quality 600-ohm dynamic. Complete with large padded ear cushions affording efficient seal against outside noises.

- EV Sentry I** **STUDIO MONITOR**, for wall or ceiling mounting. Frequency response, 30 to 20,000 cps. EIA sensitivity, 49 db. Impedance, 16, 150, 600 ohms. 20-watt. 17"x37"x21 3/4", 82 lbs.



- EV Sentry II** **STUDIO MONITOR**, floor model. Same electrical specifications as EV Sentry I. 32"x20"x13", 68 lbs.



INTERLOCK

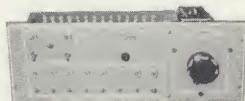
- M-782** **SYNC-SELSYN CONTROL BOX**, for use with any model Recorder/Reproducer equipped with a Selsyn and a projector equipped with sync-interlock attachment M-433. Has receptacles for two Selsyn cables and a Selsyn lock switch. Two receptacles for sync motor control and a switch which energizes both drive motors simultaneously. Complete with two 15-foot Selsyn cables and two 15-foot AC cords.

- M-784** **SYNC SELSYN CONTROL BOX**. Same as M-782 but with four receptacles for sync and selsyn motors. Suitable for interlocking two, three, or four pieces of equipment equipped with both Selsyn and sync motors. Selsyn equipped X-400 Series dubbers must have special wiring provided to operate with this system. Operates in reverse if each individual synchronous motor is equipped with a reverse switch. Interconnecting cables supplied.

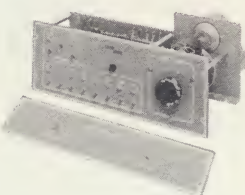


INTERLOCK (Contd')

- M-790** **DISTRIBUTOR CONTROL PANEL**, for remote operation of up to six units in a distributor interlock system. Mounted on rack panel 7"x19" with slow start control for distributor motor, switches and pilot light. Use with M-801 Distributor.



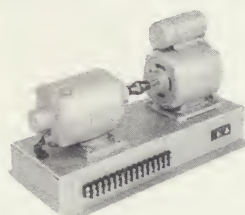
- M-791** **DISTRIBUTOR CONTROL PANEL**, same as M-790 except "slow start" distributor motor control is motor driven, enabling operator to run system from any auxiliary remote position by push button control. Use with M-801 Distributor.



- M-792** **DISTRIBUTOR CONTROL PANEL**, same as M-790 except three-phase for use with M-802 three-phase Distributor.

- M-793** **DISTRIBUTOR CONTROL PANEL**, same as M-790 except with 220-volt, three-phase control for use with M-803 Distributor.

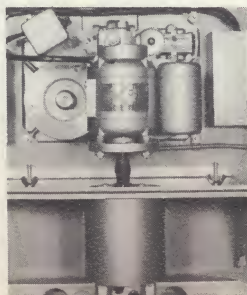
- M-801** **DISTRIBUTOR**, heavy-duty interlock with 110-volt, single-phase, 50/60 cps drive and excitation for system employing M-431 or M-432 Interlock Motors. Rated to operate up to six standard recorders, dubbers or projectors. 1500/1800 RPM.



- M-802** **DISTRIBUTOR**, heavy-duty interlock with 220-volt three-phase drive motor, 50/60 cps and 110-volt single-phase Selsyn excitation. For use with M-431 and M-432 Interlock Motors. 1500/1800 RPM.

- M-803** **DISTRIBUTOR**, heavy-duty interlock with 220-volt, 3-phase 50/60 cps drive motor. Excitation 220-volt, 3-phase. For use with M-430 Interlock Motors. Rated to operate up to 8 standard recorders, dubbers, or projectors. 1000/1200 RPM.

- M-450** **INTERLOCK MOTOR AND CASE**, for Type 5 Magnasync portable recorders. Recorder is easily disconnected for location recording. Armature shaft of synchronous motor on recorder couples directly to shaft of M-432 Interlock Motor.



- M-470** **INTERLOCK MOTOR ATTACHMENT**, includes M-432 Motor, mounted on 7"x19" rack panel. For interlocking rack mounted Magnasync 602, 702, and 135 Series dubbers and recorders.

INTERLOCK (Cont'd)

- M-473** **INTERLOCK MOTOR ATTACHMENT**, same as M-470 but includes M-430 Motor for 220-volt, 3-phase current, Gilmer belts and pulleys.

- M-480** **INTERLOCK MOTOR ATTACHMENT**, for X-400 Type I Recorder. Complete with M-432 Selsyn Motor.

- M-480A** **INTERLOCK MOTOR ATTACHMENT**, for X-400 Type 15 Recorder. Complete with M-432 Selsyn Motor.

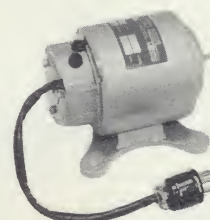
- M-481** **INTERLOCK MOTOR ATTACHMENT**, for X-400 rack mounted dubbers. Complete with M-432 Motor. Will not attach to mechanical interlock system on X-400 dubbers.



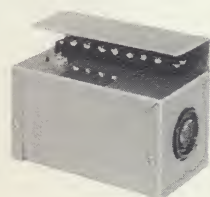
- M-430** **INTERLOCK MOTOR**, heavy duty 220-volt, three-phase excitation with 220-volt, 3-phase secondary. Compatible with Westrex and RCA interlock systems. 1000/1200 RPM.

- M-431** **INTERLOCK MOTOR**, heavy duty, 110-volt single-phase excitation with 110-volt, 3-phase secondary. Quotations on 35mm interlock attachments furnished on request. 1500/1800 RPM.

- M-432** **INTERLOCK MOTOR**, standard duty, 110-volt, single-phase primary 110-volt, three-phase secondary. 1500/1800 RPM.



- M-437** **INTERLOCK MOTOR RELAY ASSEMBLY**, one required for each single-phase interlock motor when used with distributor system.



- M-437X** **INTERLOCK MOTOR RELAY ASSEMBLY**, one required for each three phase interlock motor when used with distributor system.

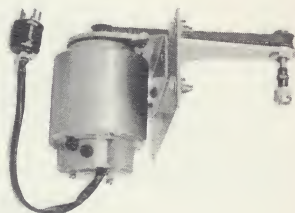


- M-439** **REMOTE FOOTAGE COUNTER**, in metal enclosure. Specify whether 16mm or 35mm speed. 50/60 cps. Selsyn driven. Includes relay.

INTERLOCK (Cont'd)

INTERLOCK MOTOR ATTACHMENT for 16mm projectors. Drive quill designed to prevent radial load damage to projector.

M-434B INTERLOCK MOTOR for Bell & Howell Standard projector.



M-434BS INTERLOCK MOTOR, for Bell & Howell Specialist 542 and AV 535 projectors. (Factory installation)

M-434D INTERLOCK MOTOR, for De Vry projector.

M-434G INTERLOCK MOTOR, for Graflex Galaxy projector.

M-434J INTERLOCK MOTOR, for Jan projector.

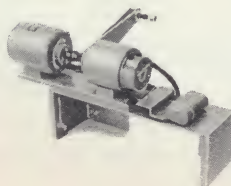


M-434P INTERLOCK MOTOR, for Kodak Pageant projector.



SYNC INTERLOCK ATTACHMENT for 16mm projectors. Consists of 1800 rpm sync motor, Selsyn motor and timing belt drive to 1440 rpm with projector mounting bracket. For use on two machine sync-Selsyn system M-782 or 4 machine system M-784. Also for distributor system or operating projector by itself at sync speed. Quotations on other makes available on request.

M-433B SYNC INTERLOCK, for Bell & Howell Standard projector.



M-433BS SYNC INTERLOCK, for Bell & Howell Specialist 542 and AV 535 projectors. Must be installed at factory.

INTERLOCK (Cont'd)

FLEXIBLE CABLE INTERLOCK assemblies provide frame-for-frame synchronization between Magnasync recorders and 16mm projectors. Specify 50 or 60 cycles.

For X-400 Series Recorders (Specify Type 1 or Type 15)

M-44B FLEXIBLE CABLE INTERLOCK, for B & H projectors except 542 & 535.

M-44G FLEXIBLE INTERLOCK CABLE, for Graflex Galaxy projector.

M-44J FLEXIBLE CABLE INTERLOCK, for Jan projector.

M-44P FLEXIBLE CABLE INTERLOCK, for Kodak Pageant projector.



For 602 Series Recorders

M-45B FLEXIBLE CABLE INTERLOCK, for Bell & Howell projectors.

M-45G FLEXIBLE CABLE INTERLOCK, for Graflex Galaxy projector.

M-45J FLEXIBLE CABLE INTERLOCK, for Jan projector.

M-45P FLEXIBLE CABLE INTERLOCK, for Kodak Pageant projector.

EM-2 ERASE HEAD MODIFICATION, self powered high frequency erase oscillator on 19"x5 1/4" rack panel, with erase head on adapter bracket, for use with M-202 Loop Rack Attachment or with any model Magnasync recorder. (Please specify). Most common application of this modification is in loop recording for foreign language recording.



M-202-1 LOOP RACK ATTACHMENT, 16mm loop rack attachment for magnetic film dubbers. Holds up to 100 feet of film for looping of sound effects, language conversion, etc.

M-202-2 LOOP RACK ATTACHMENT, for 17.5mm.

M-202-3 LOOP RACK ATTACHMENT, for 35mm.

RACK CABINETS

R-77 RACK CABINET, deLuxe enclosed 19"x77" panel space.

R-61 RACK CABINET, deLuxe enclosed, 19"x61 3/4" panel space.

R-42 RACK CABINET, deLuxe enclosed, 19"x42" panel space.

TEST FILMS

Purchase the following Test Films direct from:
THE SOCIETY OF MOTION PICTURE AND TELEVISION ENGINEERS
9 East 41st Street
New York, New York 10017

DESCRIPTION	UNIT PRICE
16 mm Edge Track Azimuth, 100 ft., M16AL	\$ 25.00
16 mm Edge Track Multi-frequency, 200 ft., M16MF	50.00
35 mm 3-Track Azimuth, 50 ft., 3TH-8	15.00
35 mm 3-Track Multi-frequency, 320 ft., RCFM	85.00

MAGNASYNC TEST FILMS

F-2	TEST FILM, Center track azimuth 100-foot roll.
F-4	TEST FILM, Center track multi-frequency, 200-foot roll. Magnasync equalization.
F-4X	TEST FILM, 16mm center track test film multi-frequency, SMPTE characteristics.
F-5	TEST FILM, 17.5mm azimuth, 100-foot roll, 90 fpm.
F-6	TEST FILM, 17.5mm multi-frequency, 300-foot roll, 90 fpm.

PADDED DUST COVERS

D-2	DUST COVER, for Type 5 and Type 15 mechanism.
D-3	DUST COVER, for Type 5 amplifier.
D-6	DUST COVER, for X-400 Type 1 Recorder.
D-7	DUST COVER, for G-924 Mixer.

INTERCONNECTING CABLES

(All Audio Cables are shielded and 25 feet in length)

C-41	CABLE, with loss pad and XL plugs for interconnecting G-924 Mixer output with X-400 Series Recorder input.
C-42	CABLE, with loss pad and XL plugs for interconnecting 602, 702, 135 and X-400 Series Recorder/Reproducer outputs to G-924 Mixer input; G-963 Console output to X-400 Recorder input.
C-43	CABLE, with XL plugs for interconnecting 602, 702, 135 and X-400 Series Recorder/Reproducer outputs to G-963 Console input.
C-50	CABLE, with XL plugs for interconnecting G-924 Mixer output to 602, 702, 135 Series Recorder input.

INTERCONNECTING CABLES (Cont'd)

C-45	CABLE, Microphone (25 ft.)
C-45X	CABLE, Microphone (50 ft.)
C-46	CABLE, Interlock Motor less connectors. (50 ft.)
C-47	CABLE, for connecting G-963 Console output to 602, 702, or 135 Series Recorder. (25 ft.)

REELS

M-76A	SPLIT REEL, 400-foot, 16mm, Dural.
M-77B	SPLIT REEL, 1200-foot, 16mm and 17.5mm, Dural. Includes M-78 Hub.
M-35B	SPLIT REEL, 1200-foot, 35mm, Dural. Includes M-79 Hub.
M-78	LARGE HUB, for 16mm split film reels. Aluminum spinning. Presses on plastic core.
M-79	LARGE HUB, for 35mm split film reels. Aluminum spinning. Presses on plastic core.



MISCELLANEOUS

PA-40	POWER AMPLIFIER, 40-watt high quality low distortion monitoring amplifier for installation in G-963 Console. Power switch and volume control mounted on 1 3/4"x19" rack panel.
PA-40R	POWER AMPLIFIER, with power switch and volume control mounted on 7"x19" rack panel.
X-42	FOOTAGE COUNTER ATTACHMENT, for X-400 Type 1 Recorders.
X-43	EXTENSION ARMS, for X-400 Type 1 recorder. Accommodates 1200-foot reels.
M-96	REMOTE CONTROL ATTACHMENT, for 602, 702, and 135 Series Recorders or Dubbers. Includes start, stop and reverse switching with 25-foot cable.
M-97	REMOTE CONTROL ATTACHMENT, for X-400 Type 1 Recorders.
M-98	REMOTE CONTROL ATTACHMENT, for X-400 Type 15 Recorders.
S-35	CONVERSION KIT, for all 35mm recorders and dubbers. Includes parts needed to convert 35mm transport for alternate 17.5mm operation.

Warranty

Magnasync equipment is manufactured under the most rigid quality control conditions. All components are carefully tested and inspected before assembly, and the completed equipment is tested for performance before shipment. If the original purchaser encounters any difficulty with the operation of Magnasync equipment, he should immediately contact his dealer and take full advantage of the warranty which is offered under the following terms and conditions:

Mechanical components which are determined by the factory to have been defective at the time of manufacture, will be replaced, without charge, for a period of ONE YEAR from date of original purchase.

Electrical and electronic components (except tubes) are warranted for a period of ninety (90) days under the same conditions.

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in the design and manufacture of
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